

232-STSi

Stereo S-Video PAL Tuner RS-232 and IR Control



The Contemporary Research 232-STSi Stereo S-Video PAL Tuner is a versatile RS-232 controlled PAL TV tuner featuring high-quality S-Video video and balanced A2/NICAM stereo audio output, switchable composite AV input, closed-captioning and on-screen text, 125 channel access, front-panel operation and feedback, and intelligent RS-232 control. Designed for global applications, the 232-STSi is CE listed and receives PAL B, G, H, D, K, and I standards, as well as SECAM L, B, G, H, D and K formats.

The 232-STSi is more than a global tuner, it's also tuned into country and local needs, simplifying integration. By selecting an onboard 232-STSi Country Channel Plan, installers can match TV channels to their country's frequencies. Then, using our Tuner Helper software, they can define a list of channels available in a specific city and create on-screen channel ID labels – then save the settings and apply them to other 232-STSi installations.

An onboard character generator displays on-screen text for closed captioning, channel names, interactive menus, and system feedback. Switchable inputs for composite video and stereo audio are included for display of PC graphics, VCR, camera or other A/V sources. AV from inputs and off-air broadcast are output as composite video, S-Video and Stereo, Mono, or Dual audio. Up to nine tuners can be integrated from one RS-232 control port.

Features

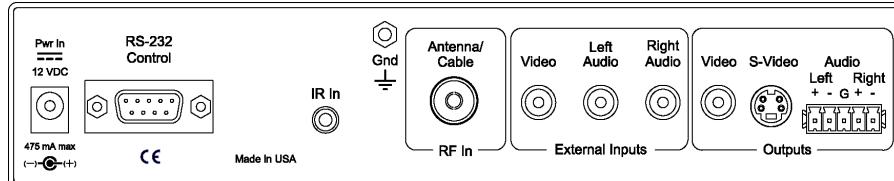
- ▼ Tunes up to 125 PAL CATV and broadcast channels, programmable by Channel Plan, also tunes SECAM with limited video features
- ▼ Outputs S-Video signal for improved image quality for monitors, large-screen displays and video projectors, employing adaptive comb and anti-aliasing filtering, as well as cross-color and cross-luminance reduction
- ▼ Delivers balanced A2/NICAM Stereo audio with programmable volume levels, as well as Mono and Dual A/B audio
- ▼ Includes onboard standards and Channel Plans that map TV channels to a country's broadcast and cable frequencies
- ▼ Stores programmable tuning ring in memory to simplify channel access
- ▼ Switches between tuner and composite AV inputs, outputs simultaneous composite and S-Video
- ▼ Operates using one of several control pathways:
 - Full bi-directional RS-232 control and status feedback, AMX and Crestron modules available
 - PC control using free .NET Tuner Helper software (great for saving tuner channels and setup information)
 - Front-panel programming options for tuning, RS-232 and operation setup
 - Optional IC-RC IR wireless remote, discrete IR and wired IR codes, as well as contact closure channel up/down
- ▼ Provides front-panel control for A/V Mute, mode select, and channel up/down
- ▼ Displays closed-captioning (Line 22) and on-screen text channel names, interactive menus, and system feedback
- ▼ Inserts blue screen video image when unit senses loss of video level
- ▼ Updates firmware with easy-to-use S12 Flash software, available from CR website
- ▼ Mounts in 19" rack with optional RK1 or RK2 kit for dual side-by-side installation



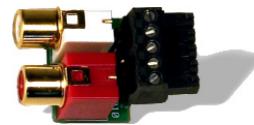
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232-STS_i Specifications



232-STS_i Back Panel



RCA Stereo Adapter

Physical

Size: 8.5" [216mm] wide x 1.75" [38mm] height (1RU) x 6.0" [153mm] deep
 Weight: 1.5 lbs [0.68kg]
 Enclosure: All aluminum with durable black powder coat paint
 Mounting: Rack mounting for one or two units side-by-side optional (RK1, RK2)

Front Panel

RS-232 LEDs: Yellow LEDs light when RS-232 data is transmitted (TX) or received (RX)
 Mute A/V: Mutes audio and video (blanks video)
 Mute LED: Red LED lights when A/V is muted
 Volume: Up and down buttons raise and lower volume, select modes for front-panel programming
 Channel: Up and down buttons select programs from stored tuning ring
 IR LED: Red LED lights when receiving IR data, internal IR sensor below or from external sensor
 Display: Discrete codes available for power, TV and external AV
 Red LED 3 digit, 7 segment LED display for channels and modes, Stereo LED shows Stereo and Dual operation

Rear Panel

Power In: 2.1mm coaxial jack (inside center conductor positive), 475 mA maximum
 11.0 to 14.5 VDC, 12 VDC typical (may be unregulated)

RS-232 Control: DB-9 male connector
 User selectable 300 to 19,200 baud (9600 default) baud, 8 data bits, no parity, 1 stop bit
 Employs standard ASCII strings from any terminal program, PC, or control system
 2 momentary closure inputs - Channel Up (Pin 4), Down (Pin 9), GND (Pin 5)

IR In: 3.5 mm stereo input for external IR sensor or wired IR (no carrier)

GND: Grounding lug

Antenna/Cable: IEC, female, 75 ohm impedance

Video Input: RCA female, 75 ohm impedance

Audio Inputs: 2 RCA female stereo unbalanced, 20K ohms impedance
 Maximum level +8dBu, (2V RMS), Reference: 0 dBu = .775 V RMS

Video Output: RCA composite output, 1V p-p at 75 ohm impedance,

S-Video Output: Mini DIN 4-pin, Y - 1V p-p at 75 ohms, C - 0.3 V p-p at 75 ohms (PAL only)

Audio Outputs: 5-Pin captive screw terminal, stereo, 200 ohm balanced/100 ohm unbalanced impedance
 Selectable for A2/NICAM stereo, mono A, mono B and Dual A/B modes

Stereo/Dual: Total Harmonic Distortion (THD): 0.6% maximum, 0.3% typical
 Response: 30Hz to 14KHz, Channel Separation: 40dB minimum, 45dB typical

Mono: Total Harmonic Distortion (THD) 0.6%, 0.2% typical
 Response: 20Hz to 20KHz

Level: +4 dBu (1.2V RMS) balanced, 0 dBu (.8V RMS) unbalanced, typical at max volume
 +11.5 dBu (2.9V RMS) balanced, +8 dBu (2V RMS) unbalanced peak max output

Volume control: 0 to -62 dB and mute in 64 steps

Tuner

Frequency: 48 to 863 MHz, 50 KHz fine tune resolution
 PAL: PAL B, G, H, D, K, and I
 SECAM: L, B, G, H, D, K
 No closed captioning, on-screen text or blue screen, or S-Video

Channel Plan: Alternate arrangements for mapping frequencies to channel numbers are available

Maximum Input: +6dBmV max, +4dBmV nominal

Video Gain: ±5% maximum, 2% typical

Video Phase: ±3 degrees maximum, 2 degrees typical

Internal Character Generator (PAL only)

Characters: ASCII with international symbols
 Format: White text over video or white text with black background over video, up to 32 characters, 15 lines
 Function: Closed captioning, channel labels, interactive menus, messages, and system feedback
 Captioning: Line 22 modes CC1-CC4, TT1-TT4, On/On with Mute/Off modes, CG text times out to show captioning
 Muting: Displays blue video image when loss of video is sensed

Includes

12 VDC power supply, 850 mA, 110/220, includes adapters for Euro, UK, Australian or US-style plugs
 Captive-screw terminal to RCA stereo adapter

Options

IC-RC Wireless IR Remote, IR-RXC External IR Receiver also available, accepts Xantech® and other IR sensors
 RK1 Kit for mounting single unit in 19" rack
 RK2 Kit for mounting two units side-by-side in 19" rack

